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Title: **JP6071425A2: OPTICAL BEAM HEATING METHOD**


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Country: JP Japan

Kind: A (See also: [JP6071425B4](#))

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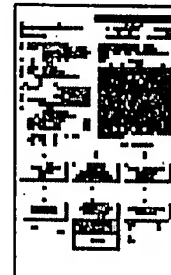
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Application Number: **JP1992000230953**

IPC Class: **B23K 1/005; G02B 6/04; G02B 6/32; G02B 27/10; H05K 3/34;**

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Priority Number(s): Aug. 31, 1992 [JP1992000230953](#)

Abstract: **Purpose:** To provide an optical beam heating method, by which local heating in small range can be executed and heating speed is quickened with high efficiency, by making the irradiating diameter of the optical beam small and the irradiating energy high.

Constitution: The irradiating optical beam from a luminous lamp, such as a xenon lamp, is condensed by a reflecting mirror, such as elliptic mirror, and a bundle optical fiber 4 is arranged at the focus point 2 in this reflecting mirror or the neighborhood thereof. This optical fiber is divided into two or more between an incident end and an outgoing end of the optical beam and lens mechanism 9, 10 are arranged at the outgoing end of each divided optical fiber 7, 8. This each focus point of the lens is concentrated to the position expected to heat a heated body 13 for locally soldering or locally heating to the other aim to execute the irradiation. By making the optical beam irradiating diameter at the focus point of the lens small and the energy density high, the local heating in the range limited to smaller can be executed to widen the applying range, and the heating speed is quickened to make this operation the high efficiency.

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